

TSYPKIN, K., polkovnik; PAKHOMOV, V., polkovnik.

Selfiess action of combat engineers in fighting a flood. Voen.-inzh.
(MIRA 11:3)

zhur. 101 no.2:34-35 F '58.
(Wilitary engineers) (Ural Mountain region--Floods)

TSYFKIN, K., polkovnik; PAKHOMOV, V., polkovnik.

Clearing the building site of the Stalingrad Hydroelectric Power
Station of mines. Voen.-inzh. zhur. 101 no.2:33-34 F \*58.

(Stalingrad Hydroelectric Power Station--Mines, Military)

TSYPKIN, K., polkovnik; PAKHOMOV, V., polkovnik.

Removing mines in the Smolensk Province. Voen.-inzh. zhur, 101 no.2:
(MIRA 11:3)

(Smolensk Province---Mines, Military)

CHUMAKOVA, M.Ya.; VASIL'YEV, Yu.M.; SAVINOV, A.P.; AGOL, V.I.; TSYPKIN, L.B.

Strain of malignant cells obtained through the prolonged cultivation in vitro of normal kidney tissue from mice of the A/SN line. Vop.onk. 8 no.8:51-57 '62. (MIRA 15:9)

1. Iz Instituta po izucheniyu poliomelita i virusnykh entsefalitov (dir. - deystv. chl. AMN SSSR, prof. M.P. Chumakov) i Instituta eksperimental noy i klinicheskoy onkologii (dir. - deystv. chl. AMN SSSR, prof. N.N. Elokhin) Akademii meditsinskikh nauk SSSR. (CANCER)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757320007-9"

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Method for mounting sections stained for fat in Canada balsan. irkh.
pat. 21 no.2:80 '59. (MIRA 12:12)

1. Iz patologoanatomicheskogo otdeleniya Moskovskoy oblastnoy psikhonevrologicheskoy bol'nitsy No.2 im. V.I. Yakovenko (glavnyy vrach V.V. Chentsov).

(HISTOLOGY,

inclusion into Canada baslasm of section stained for fat (Rns))

(FATS,

same)
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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757320007-9"

SAVINOV. A.P.: TSYPKIN, L.B.

Morphological study on subcutaneous implants of stable cultures of monkey heart. Vop.onk. 5 no.9:319-325 '59. (MIRA 12:12)

1. Iz laboratorii patologicheskoy gistologii (zav. - dots. I.A. Robinzon, konsul'tant po teme - chlen-korrespondent AMN SSSR prof. L.M. Shabad) Instituta po izucheniya poliomielita AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. M.P. Chunakov). Adres avtorov: Moskva, 118, 8-ya ul., Sokolinoy gory, d.15, korp. 2. Institut po izucheniyu poliomielita AMN SSSR (dir. - chlen-korrespondent AMN SSSR prof. M.P. Chumakov). Adres avtorov: Moskva, 118, 8-ya ul. Sokolinoy gory, d.15, korp. 2. Institut po izucheniya poliomielita AMN SSSR.

(HEART)

(NEOPIASMS exper.)

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SAVINOV, A.P.; TSYPKIN, L.B.

ALL PROPERTY OF THE PROPERTY O

Results of a morphological study of the stability of cultures of Cynomolgus monkey heart cells in vivo. Vop.virus. 5 no.3:367-372 My-Je '60. (MIRA 13:9)

l. Institut po izucheniyu poliomiyelita AMN SSSR, Moskva. (NEOPLASMS) (VIRUSES)

HOZINSKI, V.I.; SEYBIL, V.B.; TSYPKIN, L.B.; PANTELEEVA, N.S.; MAZUROVA, S.M.

1.

Attempt to establish a diploid cell strain from human embryonic tissue and testing its sensitivity to some viruses. Acta virol. 8 no.5:454-458 S 164.

Institute of Poliomyelitis and Viral Encephalitidas,
 U.S.S.R. Academy of Medical Sciences, Moscow.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757320007-9"

TSYPKIN, L.B.

Cytological and yours of monkey testicular tissue under conditions of trypsinized monolayer culture in vitro. Biul. eksp. biol. i med. 55 no.3:96-10. Mr '63. (MIRA 18:2)

1. Iz Instituta poliomiyelita i virusnykh entsefalitov (direktor - deystvitel'nyy chlen AMN SSSR M.P. Chumakov) AMN SSSR, Moskva. Submitted July 5, 1962.

#### TSYPKIN, L.B.

Microglial reaction in senile dementia and the role of the microglia in the structural genesis of senile plaques. Zhur.nevr. i psikh. 59 no.11:1325-1331 '59. (MIRA 13:3)

1. 2-ya Moskovskaya oblastnaya psikhiatricheskaya bol'nitsa imeni V.I. Yakovenko (glavnyy vrach V.V. Chentsov). (PSYCHOSIS SENILE pathol.) (NEUROGLIA pathol.)

Morphology of a malignant transformation of an astrocytoma.

Arkh.put. 20 no.11:67-71 '58.

1. Iz patologoanatomichelogo otdeleniya (zav. - kund.ned.
nauk L.B. Ešypkin) Noskovskoy oblastnoy psikhonevrologichenauk L.B. Ešypkin) Noskovskoy oblastnoy psikhonevrologichenauk D.B. Timeni V.I. Yakovenko (glavnyy vrach V.V.

Chenteov).

(BRAIN--TURORS)

#### TSYPKIN. L.B.

Malignant degeneration of astrocytomas. Vop. neirokhir. 19 no.1: 38-44 Ja-F 155. (MLRA 8:2)

1. Iz pathologoanatomicheskoy laboratorii Nauchno-issledovatel'skogo ordena Trudovogo Krasnogo Znameni instituta neyrokhirurgii imeni akad. N.N.Burdenko Akademii meditsinskikh nauk SSSR.

(ASTROCYTOMA,

malignant degen.)

TYUFANOV, A.V.; TSYPKIN, L.B.; RAVKINA, L.I.; SHEPTEL, M.A.

Study on residual virulence for monkeys of Sabin's attenuated policvirus strains used for mass production of live vaccine. Acta virol. 7 no.2:116-123 Mr '63.

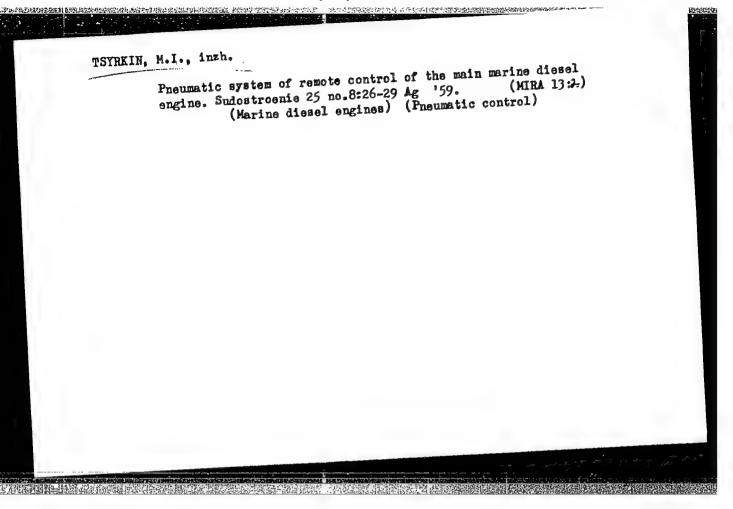
1. Institute of Poliomyelitis and Viral Encephalitides, U.S.S.R. Academy of Medical Sciences, Moscow.

(POLIOVIRUS VACCINE, ORAL)

TSYPKIN, L. B.; MEOKINSKIM, V.I.; ZEYBIL, V.B.; PANTELEYEV, N.S.; MAZUPOVA, S. M.

"Utilization of a New Diploid Cell Strain Derived from Human Embryo Lung Tissue for the Cultivation of Enteroviruses and Measles-Virus."

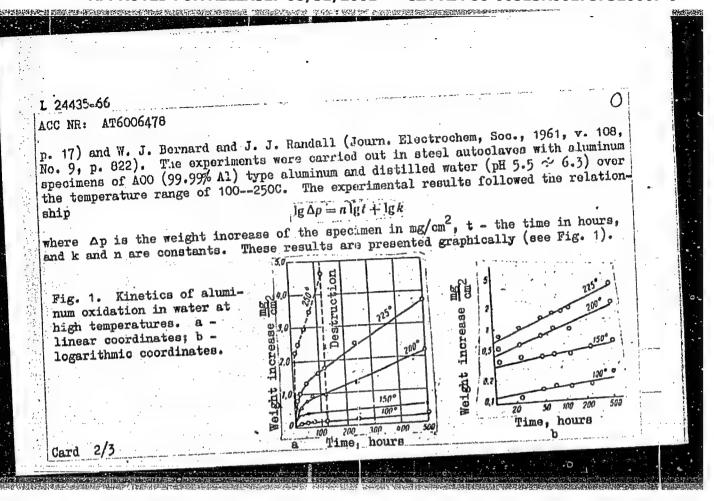
Report presented at the Symposium on Biological Standardization, Opatija, Yugoslavia, 24-26 Sep 63.



#### "APPROVED FOR RELEASE: 08/31/2001 CIA-RDI

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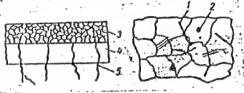
IJP(z) JD/HB/JH. EWT(m)/I/EMP(t) 24435-66 SOURCE CODE: UR/2680/65/000/024/0102/0123 ACC NR: AT6006478 Tsypin, M. I.; Rozenfel'd, I. L.; Ol'khovnikov, Yu. P.; Vizhekhovskaya, AUTHORS: 56 S. V. Bil ORG: State Scientific Research and Design Institute of Alloys and Nonferrous Metalworking, Moscow (Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov) TITLE: Investigation of the corrosion of aluminum in water at high temperatures SOURCE: Moscow. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut splavov i obrabotki tsvetnykh metallov. Trudy, no. 24, 1965. Metallovedeniye i obrabotka tsvetnykh metallov i splavov (Metal science and the treatment of nonferrous metals and alloys), 102-123 TOPIC TAGE: aluminum, aluminum compound, corrosion, corrosion rate, intergranular corrosion/ A00 aluminum ABSTRACT: It was the object of this investigation to resolve the existing controversy concerning the mechanism of the corrosion reaction of aluminum in water at high temperatures, as discussed by V. H. Trautner (Corrosion, 1959, v. 15, No. 1, Card 1/3



L 24435-66 ACC NR: AT6006478

The morphology of the corrosion products was studied. Electron microscope pictures of the corrosion products are presented. The phase composition of the corrosion products was investigated by x-ray diffraction and electron diffraction techniques, and the results are also presented in tables and graphs. A scheme for the distribution of corrosion products is proposed (see Fig. 2).

Fig. 2. Scheme for the distribution of products based on the experimental data. 1 -  $\sigma$  phase; 2 - diaspore; 3 - crystal layer; 4 - optically structureless layer; 5 - products of intercrystalline corrosion.



It is concluded that the experimental results support the mechanism proposed by Trautner (see reference above). The authors suggest that the rate of hydrogen ion diffusion into the metal depends on a number of factors, e.g., phase composition, size, form, and degree of perfection and optimum orientation of crystals. Orig. art. has: 5 tables, 10 graphs, and 2 equations.

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 019

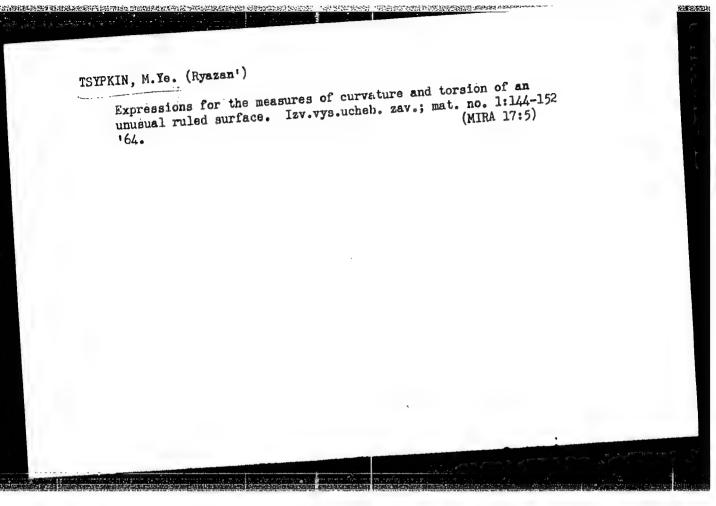
VLADZIYEVSKIY, A.P., doktor tekhm. nauk, prof.; BELOUSOV, A.P.,
kand. tekhm. nauk, dots.; GLADILIN, A.N., kand. tekhm.
nauk, dots., retsenzent; TSYPKII, M.Ye., inzh., retsenzent;
BEYZEL'MAN, R.D., inzh., red.[doceased]; FRID, L.I., inzh.,
red.izd-va; MODEL', B.I., tekhm. red.

[Arrangement of automatic production lines] Ustroistvo avtomaticheskikh linii. Moskva, Mashgiz, 1963. 2/2 p.
(MIRA 17:1)

TSIPKIH M.Yew; inzh.; KRASHOV, L.B., inzh.; GOL'TSIKER, D.G., inzh.;
ASKUS, I.V., inzh.; VKRIH, I.I., inzh.; KUCHER, I.M., kand.tekhn.
anak, retsenzent; OGLOBLIN, A.M., dots., red.; LMYKHA, T.L.,
nauk, retsenzent; OGLOBLIN, A.M., dots., red.; LMYKHA, T.L.,
red.izd-va; SOKOLOVA, L.V., tekhn.red.

[Milling machine perts boring machines] Obrabotka detalei mashin
na rastochnykh stankakh. Pod obshchai red. A.N.Oglobina. Moskva,
na rastochnykh stankakh.

(MIRA 11:4)



TSYPKIN, M. Ye.
PHASE T BOOK EXPLOITATION

531

Tsypkin, M.Ye., Krasnov, L.B., Gol'tsiker, D.G., Asmus, I.V., Verin, I.I.

- Obrabotka detaley mashin na rastochnykh stankakh (Processing of Machine Parts on Boring Machines) Moscow, Mashgiz, 1958. 339 p. 12,000 copies printed.
- Ed.: Ogloblin, A.N., Docent; Reviewer: Kucher, I.M., Candidate of Technical Sciences; Ed. of Publishing House: Leykina, T.L.; Technical Sokolova, L.V.; Managing Ed. for literature on the technology of machine building of the Leningrad Branch of Mashgiz: Naumov, Ye.P., Engineer.
- PURPOSE: This book is recommended as a text for technical schools.

  It is intended also for boring-machine operators in machinebuilding plants specializing in individual and limited series
  production.

Gard 1/7

Processing of Machine Parts on Boring Machines

531

COVERAGE: The textbook reviews designs of the most widely used boring machines and explains various aspects of machining piece parts under conditions of individual and limited series production. Examples of machining frame parts with and without the aid of jigs examples of machining frame parts with and without the aid of jigs are cited as well as examples of special operations performed on are cited as well as examples of special operations are described. Special cutting tools, measuring instruments, and boring machines. Measures for increasing the productive capacity of boring machines and for improving the quality of machining are reviewed. The task of preparing the textbook was apportioned as follows: I.V. Asmus of preparing the textbook was apportioned as follows: I.V. Asmus of prepared Chapter IV; I.I. Verin, Chapter I; D.G. Gol'tsiker, prepared Chapter IV; I.I. Verin, Chapter I; D.G. Gol'tsiker, Chapter II; L.B. Krasnov, Chapter V, und VII and paragraphs 49, Chapter II; b.B. Krasnov, Chapter V, paragraph 40 of Chapter VI, of Chapter IV, paragraph 27 of Chapter V, paragraph 40 of Chapter VI, paragraphs 46, 47, 48, and 51 of Chapter VIII, and Chapter IX. The authors, in compiling the textbook, drew on the experience of the Leningrad Machine-tool Building book, drew on the experience of the Leningrad Machine-tool Building There are 7 Soviet references.

**Card** 2/7

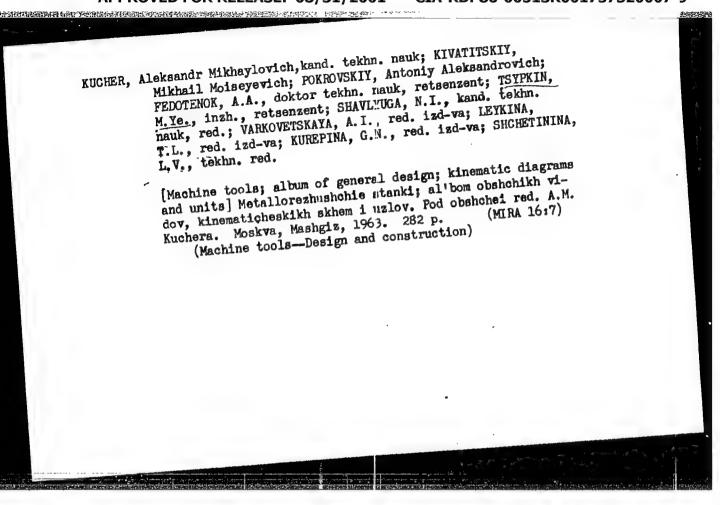
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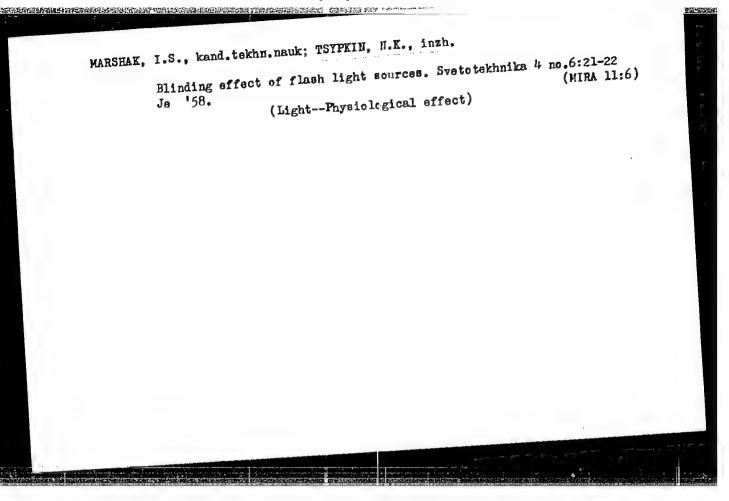
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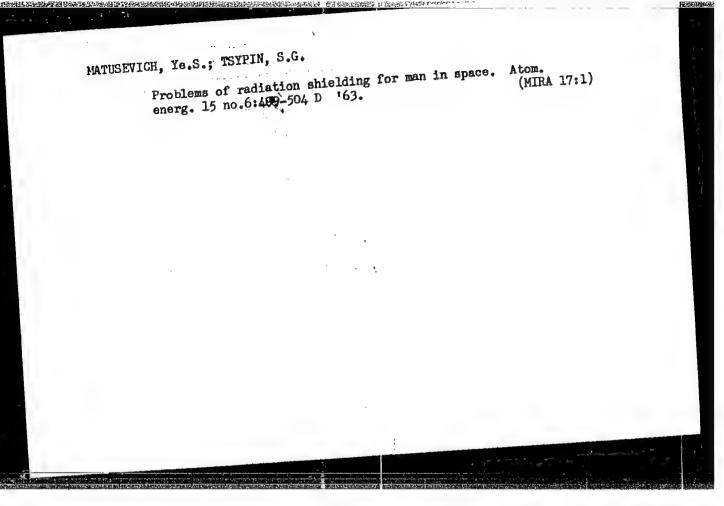
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TSYPKIN, SURGEY DESTREYEVICH  Fravovoye Regulirovaniye Halogovykh Otnosheniy v 355R (Lawful Regulation of Tax Structure in the USER) Foskva, Gosyurizdat, 1955.	<u>.</u> T?	
74 p.		
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DULIN, V.A.; KAZANSKIT, Yu.A.; MASHKOVICH, V.P.; PANOV, Ye.A.;

TSYPIN, S.G.

Attenuation functions of neutrons from isotropic and highly collimated fission sources in water. Atom.energ. 9 no.4: (MIRA 13:9) (MIRA 13:9)

(Neutrons)

TSYPKIN, S. J.

ZYPKIN, S. J.

"Isomerism Induced in In 115 By Electron Impact," Lok. AN, 30, No. 5, 1941.

"Krainian Inst. for Tech. Phys. Kharkov. c1941.

TSYPKIN, S.I.

"An Investigation of Bremsstrahlung by Means of

Excited In Nuclei"

Zhur. Phys., 129, No. 3, Vol. VII, 1943

Physico-Tech. Inst., Acad. of Sci. of the Ukrainian

SSR. c1941-.

Tourning o. i.

USSR/Nuclear Physics — Garma Rays Nuclear Physics — Radioactivity Nov/Dec 48

"Radioactivity of Be7," V. V. Gey, G. D. Latyshev, S. I. Tsypkin, A. A. Yuzefovich, 3 pp

"Iz Ak Nauk SSSR, Ser Fiz" Vol XII, No 6

After measuring the gamma-radiation resulting from annihilation of matter, concludes that if there is a supplementary component in the composition of the gamma-radiation of Be, it does not result from annihilation of matter.

PS 25/49T85

**是是一个人,我们就是是一个人的人,我们就是是一个人的人的,我们就是是一个人的人的人的人的人的人,我们们不是一个人的人,我们们不是是一个人的人的人的人,我们就是他们是是一个人的人的人,我们们们也不是一个人的人的人,我们们们** 

KRUPIN, G.V.; BELYAYEV, I.T.; LAPSHIN, A.A.; GORDEYEV, N.I.; MAR YALXOV-SKIY, I.M.; PAVIOV, B.V.; ZHILOV, S.N.; TSYPKIN, S.I.; ANDREYEV, H.H.; KAZIMOROVA, V.F.; KURANOVA, I.L.; PIGULZYSKIY, G.V.

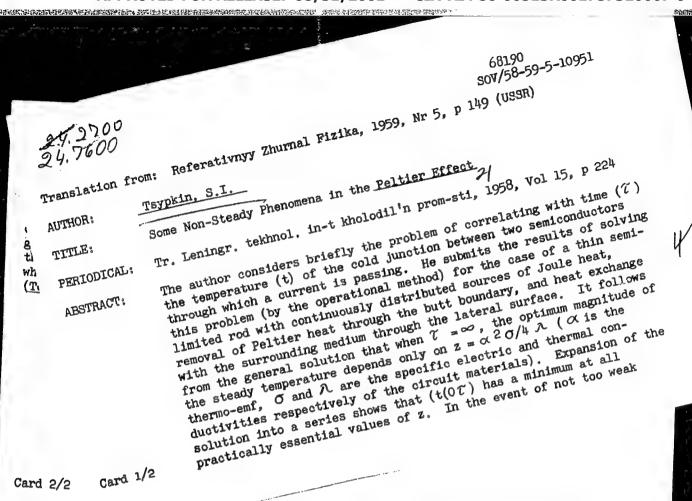
Annotations of the scientific research work performed at the institute in 1957. Trudy LTIKHP 15:213-227 '58.

(MIRA 13:4)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti. 2. Kafedra tekhnologicheskogo oborudovaniya pishchevykh proizvodstv (for Krupin, Lapshin, Pavlov). 3. Kafedra ekonomiki i organizatsii proizvodstva (for Belyayev).
4. Kafedra detaley mashin i pod"yemno-transportnykh mashin (for Gordeyev). 5. Kafedra grafiki (for Mar'yanovskiy). 6. Kafedra promyshlannoy teplotekhniki (for Zhilov). 7. Kafedra fiziki (for Tsypkin). 8. Kafedra fizicheskoy kolloidnoy i organicheskoy khimii (for Andreyev, Kazimirova, Kuranova, Pigulevskiy).

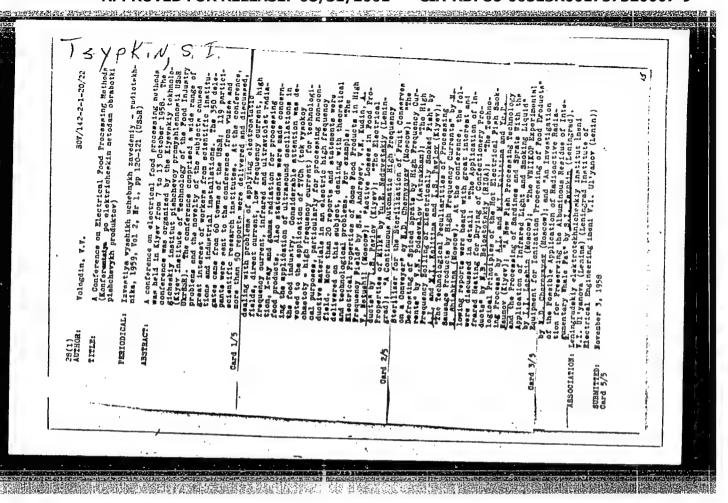
(Refrigeration and refrigerating machinery)

(Chemistry, Tachnical)



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### TSYPKIN, T.I., kand.sel skokhozyaystvennykh nauk

The Mynbaev Experimental Demonstration Farm. Zhivotnovodstvo 23 no.8:25-30 Ag \*61. (MIRA 16:2)

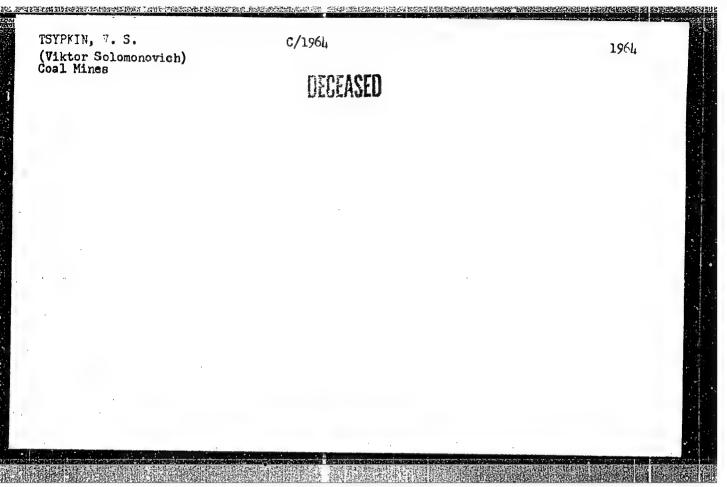
1. Zaveduyushchiy otdelom ekonomiki Kazakhskogo nauchnoissledovatel'skogo instituta zhivotnovodstva. (Kazakhstan-Agricultural experiment stations)

BEIPROZVANNYY, B.K. (Moskva); ECYTFIN, V.I. (Moskva); BUZINOV, I.V. (Moskva); CHIZHOV, V.A. (Moskva)

为对于1965年,1000日内部的大学中国的1965年,1

Morphology of spontaneous toxoplasmosis of minks. Arkh. pat. 27 no.2:72-78 165. (MIRA 18:5)

l. Laboratoriya patomorfologii (ispolnyayushchiy obyazannosti zaveduyushchago - kand.med.nauk B.K.Bezprozvannyy) Instituta virusologii imeni Ivanovskogo (dir. - deystvitzil'nyy chlen MN SSSR prof. V.M.Zhdanov) i otdel veterinarii (zav. - kand. veterinarnykh nauk I.A.Buzinov) Nauchno-issledovatel'skogo instituta pushnogo zverovodstva i krolikovodstva (dir. - k.nd. biolog. nauk M.D.Abramov).



ISYPKIN, Ya.L.

AID P - 2366

Subject

: USSR/Electricity

Card 1/2

Pub. 27 - 29/30

Authors

Babakov, N. A., Prof., <u>Tsypkin, Ya. L.</u>, Prof., Shumilovskiy, N. N., Prof., and others, members of the Chair of Automatic Control and Regulation of the All-Union Correspondence Institute of Electrical Engineering

Title

: A. A. Voronov. Elementy Teorii Avtomaticheskogo Regulirovaniya (Elements of the Theory of Automatic Regulation). 2nd Ed., revised and supplemented, 471 pp., 1954, Military Publishing House of the Ministry of Defense of the USSR (Book review).

Periodical: Elektrichestvo, 5, 87-88, My 1955

Abstract

The authors of the book review discussed it at the meeting of the members of the chair. After a systematic discussion of every chapter, the authors conclude that the book presents a valuable contribution to the presentation of this new and rapidly developing branch of

Elektrichestvo, 5, 87-88, My 1955

AID P - 2366

Card 2/2 Pub. 27 - 29/30

engineering. Its most important deficiencies are its insufficient development of the theory of non-linearity and that not enough numerical examples are given. Otherwise, the book is highly recommended and was approved by the Ministry of Culture of the USSR.

Institution: None

Submitted : No date

TSYPKIN, Ya. Z.; BRCHBERG, P.V.

Institute of Automatics and Telemechanics, Academy of Sciences, USSR. "Concerning Degrees of Stability of Linear Systems." Iz. Ak. Nauk SSSR, Otdel. Tekh. Nauk, Nc. 12, 1945. Submitted 6 Aug 1945.

Report U-1582, 6 Dec 1951.

TSYPKIN, Ya. Z.

PA 19T23

USSR/Nyguist's Theorem Feedback phenomena

Aug 1946

"Stability of Systems with Feedback Coupling," Ya. Z. Tsypkin, Candidate of Mech Sci, 12 pp

"Radiotekhnika" Vol I, No 5

The Nyquist criterion employed in investigations of systems with feedback coupling involves complicated calculations. The present paper suggests a criterion which considerably simplifies the analysis.

19123

TSYPKIN, YA. Z.

PA 20T59

USSR/Radio Oct/Nov 1946 Circuits, Automatic Frequency Control Retardation

"Stability of Automatic Frequency Correction System by Considering the Effect of Retardation," Ya. Z. Tsypkin, Candidate of Mechanical Sciences, 6 pp

"Radiotekhnika" Vol I, No 7/8

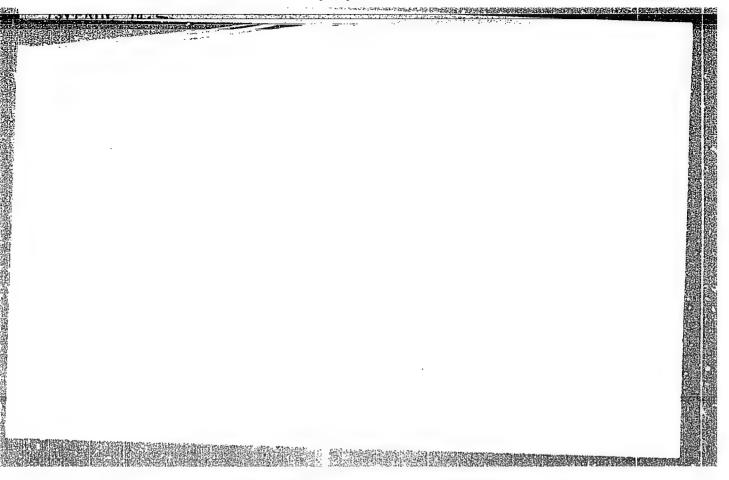
An automatic frequency correction (AFC) system is investigated by considering the effect of retardation. A stability criterion is given which makes it possible to determine the influence of the retardation upon the stability and thus choose parameters which assure stable operation of the AFC system.

TSYPKIN, Ya. 2.

K teorii klistrona. (Radiotekhnika, 1947, v. 2, no. 1, p. 49-(1, Summary in English.
Title tr.: Theory of the klystron.

TK5700.R32 1947

SO: Aeronautical Sciences and Aviation in the Soviet Union, Litrary of Congress, 1955.

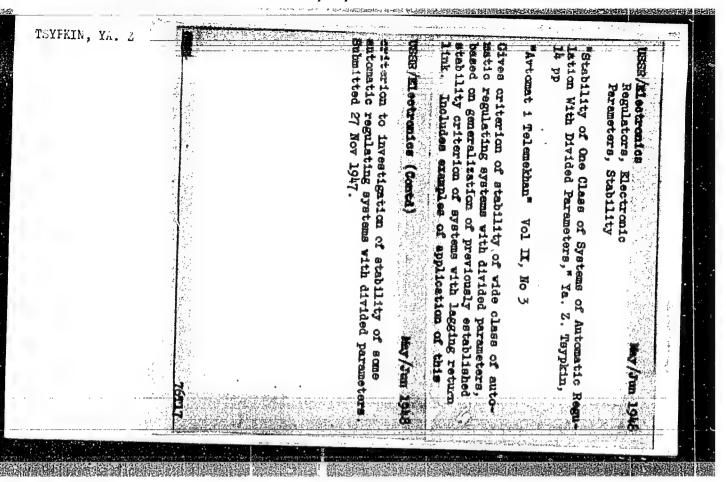


TSTEKIN, Th. Z.

42281: TSYPKIN, YA. Z. - X zedeche o mikrofonnov tsepi. Trudy Mosk. energet. in-to im. Molotove, VYP. 3, 1948, s. 153-62.

SO: Letopis' Zhurnel'nykh Statev, Vol.47, 1748

Regulators, Electronic Synchronous Machines "Stability and Ratio of Stabilit, in a System of Intermittent Regulation," Ya. Z. Taypkin, Inst on Automatics and Telemech, Acad Sci USSR, 21 pp "Avtomat 1 Telemekh" Vol II, No 2 Criteria for the stability of systems of intermitted evaluation of the stability. Stability in a systems intermittent regulation. Method for calculating stability of intermittent regulating systems to temperature of intermittent regulating systems to temperature This was studied for samples possessing feedback circuits, and those without feedback circuits. Smitted 3 Dec 1947.
Mar/Apr 1948 Lit in a System of Z. Tsypkin, Inst of 1 Sci USSR, 21 pp No 2 systems of intermittent quantitative and qualifility. Stability rations curring in systems of hod for calculating the tems to temperature. ossessing feedback circuits. Subsedback circuits. Subsedback circuits.



TSYPKIN, YA. Z.

USSR/Electronics
Servo Systems
Fire Control Systems

Jul/Aug 48

"Review of V. A. Besekerskiy's Book "Remote Control of Artillery," M. A. Ayzerman, Ya. Z. Tsypkin, 25 pp

"Avtomatika i Telemekh" Vol IX, No 4

Unfavorable review. Part I: "The Foundations of the Throey of Automatic Regulating and the Theory of the Synchronous-Servo Drive," Published by the Leningrad Order of Red Banner Mil Mech Inst, Leningrad, 1947.

PA 13/49T30

TSYPKIN, YA. Z.

The same seem assessed a substitution of the same

25714

Nerezonansnye Elektricheskie Tsepi s Peremennym i nelineynym Parametrami. Elektrichestvo, 1949, No. 8, s. 35-37.

Zh. Radiotekhnika. Primenenie Radio (Radiolokatsiya iproch.) Televideniie (eksploatatsionnye UoProsy Radiosvyazi-Sm. XIX, 3)

SO: LETOPIS! No. 34

	to set up difference derivation of operation of the set of the contract of the c	USSR/Electronics (	Classifies systems of conti- Introduces the concept of o and time-characteristics of systems of continuous regul- one to avoid enormous calcu	"Aytomat 1 Telemekh"	Torced Rhythm of Circ Taypkin, Inst of Auto Sci USSR, 36 pp	USSR/Electronics Servomechanisms Regulators	
	ce equations and stor equations wistor equations windiscret ments. This conor of practical sy Submitted 3 Summitted 3 Summi	(Contd)	nnous reperator closed ation which the perator will be the perator will be the perator of the pe	ḥ" ∀ol X, No 3	uous Regulation (Systems Circuit Interruption)," . Automatics and Telemech,	8	
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1A 11T25 TSYFKIN YA. Z. bility in systems of continuous regulation. bility of Systems of Discontinuous Regulation," Submitted 3 Sep 48. back upon the stability of systems, in apposistrate obvious influence of introducing "deriva-USSR/Engineering - Regulation, Dis- Sep/Oct 49 their stability analogous to criteria of staregulation, and establishes criteria governing characteristic for systems of discontinuous "Avtomat i Telemekh" Vol X, No 5 Acad Sci USSR, 20 pp Ta. Z. Tsypkin, Inst of Automatics and Telemech, tion to algebraic criteria applied earlier. tive" regulation, inflexible and flexible feedcases of lag and no lag. of first and second type, considering separately in various systems of discontinuous regulation Applies stability criteria to study of stability Introduces concept of operator and frequency Theory of Discontinuous Regulation: II. Sta-USSR/Engineering - Regulation, Dis- Sep/Oct 49 Servomechanisms continuous continuous Simple graphs demon-(Contd) 151I25 151125

Call No.:

TOYPKIN, Yo. Z.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 291 - I

BOOK

Author: TSYPKIN, YA. Z.

Full Title: TRANSIENT AND STEADY-STATE PROCESSES IN PULSE NETWORKS Transliterated Title: Perekhodnye i ustanovivshiyesya protsessy v

impul'snykh tsepyakh

Publishing Data

Originating Agency: None

Publishing House: State Publishing House for Energetics

Date: 1951 No. pp.: 220 No. of copies: 4.000

Editorial Staff

Editor: Dolgolenko, Yu. V.,

Tech. Ed.: None

TK7835.T8

Candidate of Technical

Sciences

Editor-in-Chief: None Appraiser: None Others: The author expresses his graditude to Engineer

O. A. Retskaya who contributed most of the graph computations, and to Yu. V. Dolgolenko, Candidate of Technical Sciences, who made valuable comments during the editing of the text.

Text Data

Coverage: An exposition of the theory and analysis of transient and

1/2

Perekhodnye i ustanovivshiyesya protsessy v impul'snykh tsepyakh

AID 291 - I

steady-state processes in pulse networks, specifically, in linear electric circuits and mechanical systems with pulse input. The developed theory is applied to the study of intermittent and relay-type control systems.

The book is primarily theoretical in nature. sion revolves around a simple and comprehensive method of analysis and computation, illustrated with specific characteristic examples with a full complement of formulas

Table of Contents:

Ch. Elements of Laplace's Transforms.

Pulse Networks.

Pulse Feedback Systems.

Relay Feedback Systems.

Purpose: Intended for scientists, candidates for academic degrees, and research engineers working in the fields of electrical and radio engineering, and automatics.

Facilities: Not given

No. of Russian and Slavic.References: 47 (of these, 10 are non-Soviet)

USSR/Physics - Regulation, Discountinuous (Discrete)

"Discussion: Remarks on the Work of Ya. Z. Tsypkin, Theory of Discontinuous (Discrete) Regulation.

I,'" I. A. Yakovley

"Avtomat i Telemekh" Vol XII, No 3, pp 232-234

Touches on the connection between "discrete Laplace transformations," introduced by Ya. Z.
Tsypkin in "Automat i Telemekh" Vol X, No 3, 189, 1949, and ordinary Laplace transformations. Cf.
D. V. Widder's "The Laplace Transformations. Cf. Submitted 1 Dec 50. (In a note to the editors Tsypkin acknowledges making an incorrect assertion)

215763

TEYPKIN, Ya Z; Naumov, Boris Bikolayevich, Meyerov, M. V., Fomia, E H

"Study of the Frequency Regulation Process in the System Moscow-Kuibychev," Ccientific Report of the Inst of Automation and Telemechanics, USSA Acad of Sciences, 1952.

TSYPKIN, Ya Z.; Naumov, Boris Nikolayevich; Myerov, M. V.; Cheloumova, D. G.; Fomis, E. N.

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"Investigation of the Velocity Regulation Process in the System Moscow-Kuibyshev, with Special Reference to the Phenomenon of the Retardation in the Kulbyshev Hydroturbine," Scientific Report of the Inst. of Automation and Telemechanics, USSR Acad. of Sciences, 1952.

"Investigation of the Regulation Process of Frequency and Power Transfer (?) in the System Moscow-Kuibyshev," Scientific Report of the IAT, USSR Acad.

TSYPKIN, Ya. E.; Naumov, Boris Sikolayevich

of Sciences, 1952.

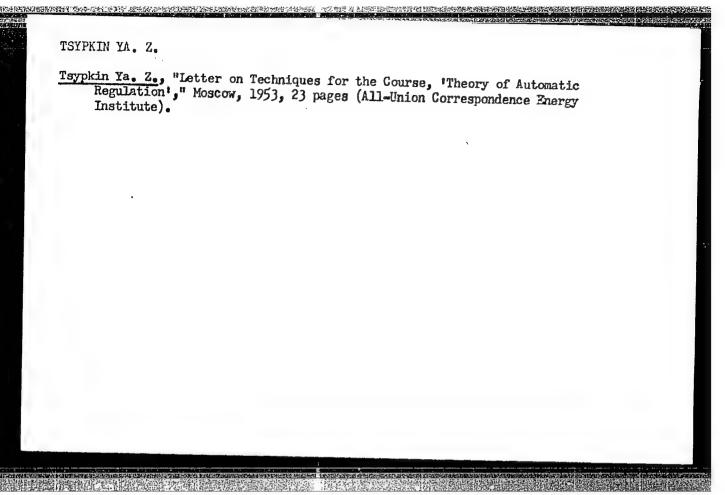
TSYPKIN, Ya. Z

"Forced Oscillations in Relay-Type Automatic Control Systems," Inst. of Automatics and Telemechanics, AS USSR, Avtomat. 1 Telemakh., Vol. 13, No 5, pp 501-525, 1952

Gives a precise method for investigating forced oscillations in relay systems. Method involves the "generalized frequency response" of open-loop relay systems. This has been used previously for the study of stability and self-excited oscillations. Submitted 26 Apr 52.

TSYPKIN YA. Z.

Tsypkin Ya. Z., "An Annotated Index of Works on the Theory of Automatic Regulation for the Year 1947," Issue 1, Moscow, 1953, 23 pages; bibliography, 43 items (USSR Ministry of Culture, All-Union Correspondence Energy Institute, Department of Automatic Control and Regulation).



TSYPKIN YA. Z.

Tsypkin Ya. Z., "Reliability of Automatic Regulation Systems," lecture,
Moscow, 1953, 56 pages with sketches, All-Union Correspondence
Energy Institute, Department of Automatic Control and Regulation.

Y. (1)

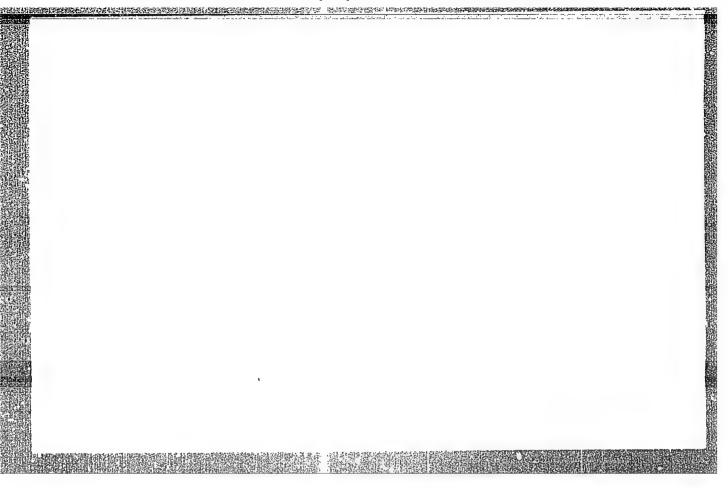
#### TSYPKIN, YA. S

Tsypkin, Ya. S. defended his Doctor's dissertation in the Institute of Automatics and Telemechanics, Academy of Sciences USSR on 6 February 1943, for the academic degree of Doctor of Technical Sciences.

Dissertation: "Systems with Delayed Feedback". Resume: Tsypkin examined systems with delayed feedback, developed stability criteria and methods for investigating the degree of stability and constructed transient and forced processes for linear systems. Methods were also developed for investigating self-induced oscillations in nonlinear systems. The methods were used for analysis and calculation of systems for automatic regulation of pressure and temperature of a servo system, an aircraft automatic pilot, ultra-short-wave generators, klystrons, systems with distributed parameters, and others. The theory described is applicable to analysis and calculation of complex systems with lumped parameters, which can be approximately replaced by simple equivalent systems.

Official Opponents: Profs. A. A. Andronov; K. F. Teodorchik, (Doctor of Technical Sciences); K. M. Polivanov; and B. N. Petrov (Doctor of Technical Sciences).

SO: Elektrichestvo, No. 7, Moscow, August 1953, pp 87-92 (W/29844, 16 Apr 54)



TSYPKIN, Ya.Z. (Moskva)

Calculating intermittent control systems in the presence of stationary random influences. Aytom. 1 telem. 14 no.4:353-374 Jl-Ag '53.

(Automatic control)

(Automatic control)

TSYPKIN, Ya. Z. (Moskva)

On I. A. IAkovlev's article "Limits of applying IA.Z. Tsypkin's method to the theory of pulse control". Avtom. i telem. 14 no.4:466-470 J1-Ag 153.

(Automatic control) (Pulse techniques (Electronics))

TSYPKIN, YA. Z.
PETROV, B.N.; TSYPKIN, Ya. Z.; KURAKIN, K.I.; TIKHONOV, V.I.; SIYITSYN, A.S.

是一个人,是一个人,我们就是一个人的人,我们就是一个人的人,我们也没有一个人的人,我们也没有一个人,我们也没有一个人的人,我们也没有一个人的人,我们也没有一个人的

Resolutions of the committee selected by the seminar on the theory of automatic control after discussing. V. V. Solodovnikov's book "Introduction to the statistical dynamics of automatic control systems". Avtom. i telom. 14 no.4:477 Jl-Ag 53. (MIRA 10:3)

(Automatic control)

#### TSYPKIN, YA. Z.

"Stability of Periodic Operating Conditions in Relay Systems of Automatic Regulation", Avtomatika i Telemekhanika, Vol 14, No 5, 1953, pp 638-646.

Analyzes a relay system, consisting of a linear element and a relay element, the characteristic of which is up =  $\phi$  (ugx) (up, upx -- output and input coordinates of the relay) acquires the values  $-\frac{1}{2}$ kn.

The linear part of the system may contain lumped and distributed parameters. The external periodic reaction is coupled to the input of the relay element.

Considering the simplest periodic operating condition upx, T(t),  $T = \mathcal{N}/w_0$  as determined, the author solves the problem of its stability. The equation of variations is written in the form

$$Q(D) \xi(t) = P(D) \xi_1(t)$$
 (D= dt) (1)

Here Q(D<sub>1</sub>), P(D) are polynomial or transcendent functions

$$\xi_1(t) = -\frac{2\kappa u}{u_{BX,T}(T)}$$
  $\delta(t-mT) \xi(mT)$ 

The prime in the summation sign means that for m = 0 the term is multiplied by 1/2.

It may be considered that the equation (1) corresponds to the system of intermittent regulation, in which the linear part of the system coincides with the linear part of the relay system, and the pulse element is characterized by a recurrent period equal to the half period T, infinitely small porosity and amplification factor

$$K_{u} = \frac{2Ku}{\hat{u}_{BX}, \Gamma(T)}$$

Hence the investigation of stability of a periodic operating condition in the relay system leads to the investigation of the stability of a certain system of intermittent regulation. The fact of stability (instability) of the system of intermittent regulation is established by means of well-known criteria. (RZhMekh, No 11, 1954) SO: Sum. No. 443, 5 Apr. 55

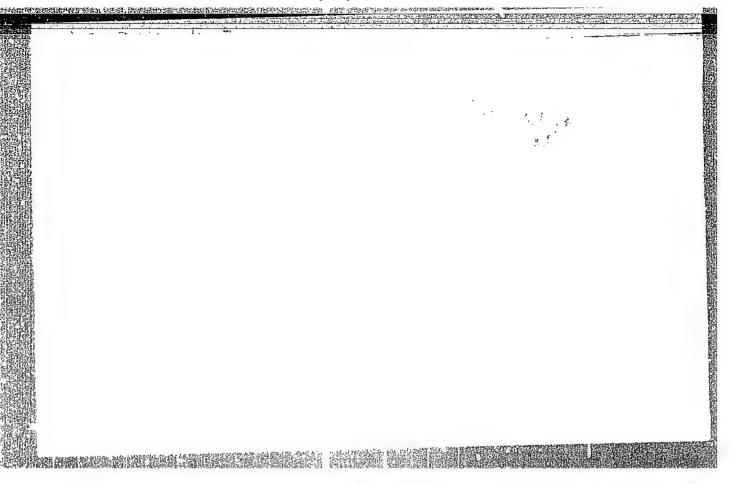
TSYPKIN, YA.Z.

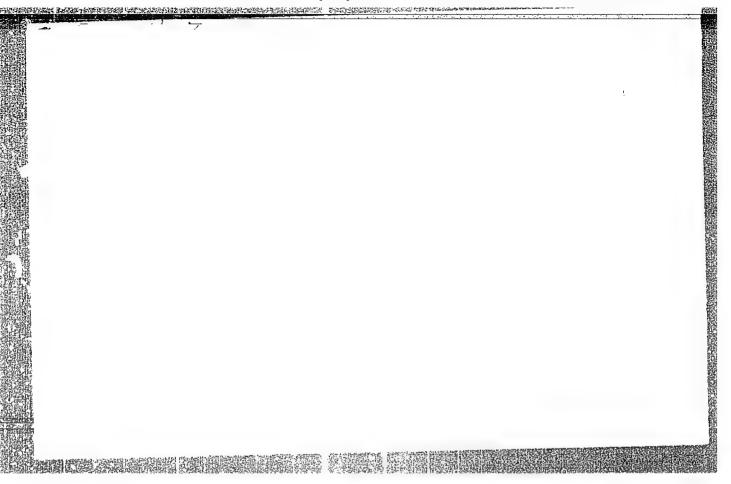
SOLODOVNIKOV, V.V.; professor, doktor tekhnicheskikh nauk; redaktor;

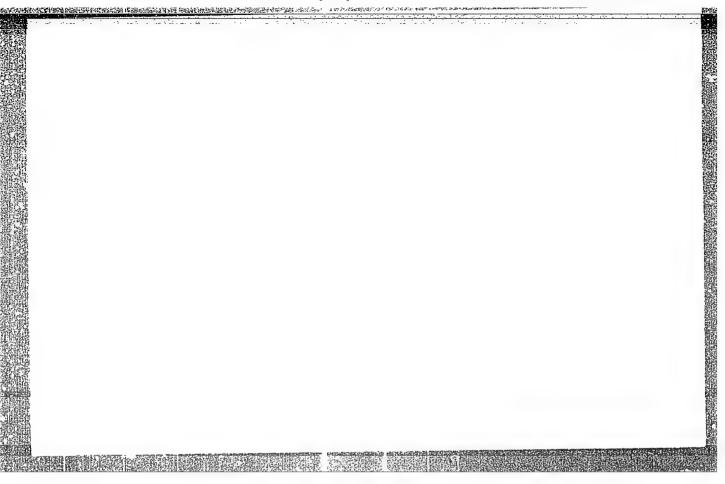
AYZHRMAN, M.A., doktor tekhnicheskikh nauk; BASHKIROV, D.A., kandidat
tekhnicheskikh nauk; EROMHERG, P.V., kandidat tekhnicheskikh nauk;
VORONOV, A.A., kandidat tekhnicheskikh nauk, dotsent; GOL'IFARB, L.S.,
doktor tekhnicheskikh nauk, professor; KAZAKEVIGH, V.V., doktor tekhnicheskikh nauk; KRASOVSKIY, A.A., kandidat tekhnicheskikh nauk,
dotsent; LERNER, A.Ya., kandidat tekhnicheskikh nauk; IETOV, A.M.,
doktor fiziko-matematicheskikh nauk; professor; MATVEYEV, P.S.,
inzhener; MIKHAYLOV, F.A., kandidat tekhnicheskikh nauk; PETROV, B.N.;
PETROV, V.V., kandidat tekhnicheskikh nauk; POSPELOV, G.S., kandidat
tekhnicheskikh nauk, dotsent; TOPCHEYEV, Yu.I., inzhener; ULANOV,
G.M., kandidat tekhnicheskikh nauk; KHRAMOY, A.V., kandidat tekhnicheskikh nauk; TSYPKIN, Ya.Z. doktor tekhnicheskikh nauk, professor;
LOSSIYEVSKIY, V.L., doktor tekhnicheskikh nauk, professor, retsenzent;
TIEHONOV, A.Ya., tekhnicheskiy redaktor

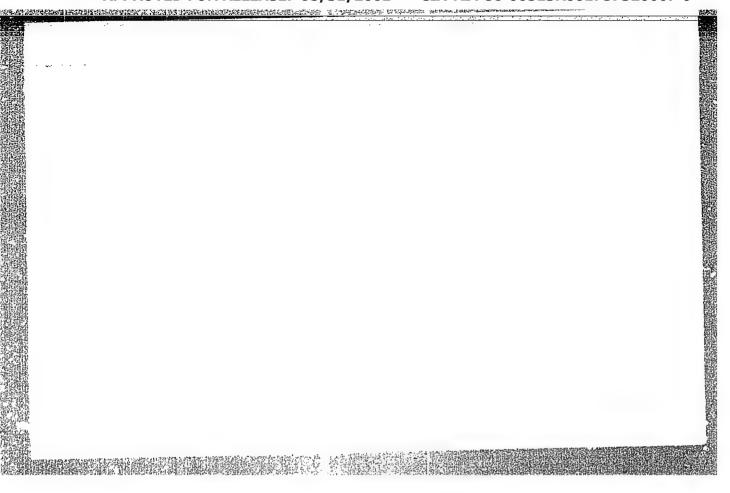
[Fundamentals of automatic control; theory] Osnovy avtomaticheskogo regulirovaniia; teoriia. Moskva, Gos. nauchno-tekhn. isd-vo mashino-stroit. lit-ry, 1954. 1116 p. (MLRA 8:2)

1. Chlen-korrespondent AN SSSR (for Petrov. B.N.)
(Automatic control)









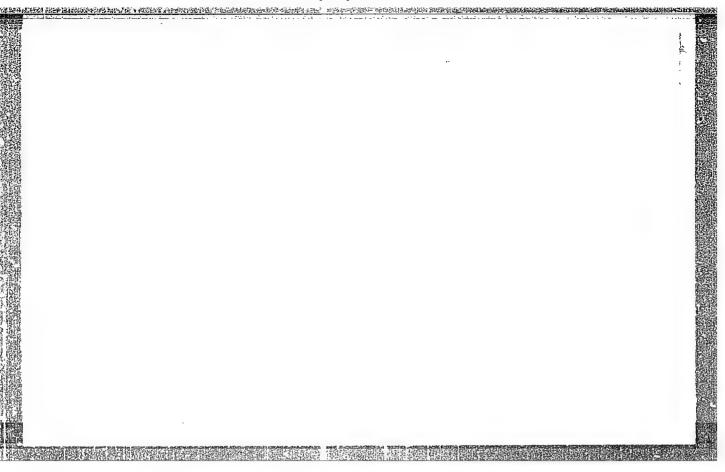
TSYPKIN, YA. Z.

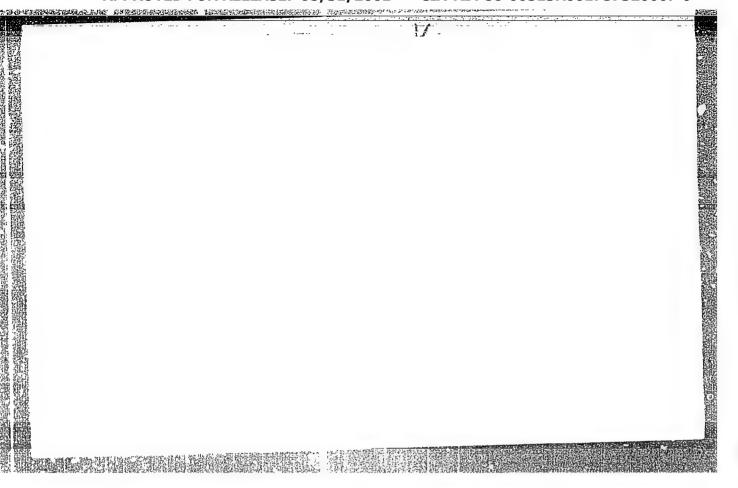
AYZERMAN, M.A., dokt. tekhn. nauk, redaktor; VORONOV, A.A., kandidat tekhn. nauk, redaktor; KOGAN, B.Ya., kandidat tekhn. nauk, redaktor; KOTEL'NIKOV, V.A., kandidat tekhn. nauk, redaktor; LETOV, A.M., dokt. fiz.-mat. nauk, redaktor; LOSSEYEVSKIY, V.L., dokt. tekhn. nauk, redaktor; KHRAMOY, A.V., kand. tekhn. nauk, redaktor; TRAPEZNIKOV, V.A., redaktor; MEYEROV, M.V., dokt. tekhn. nauk, redaktor; NAUMOV, B.N., redaktor; PETROV, B.N., redaktor; SOLODOVNIKOV, V.V., dokt. tekhn. nauk, redaktor; TSYPKIN, Ya.Z., dokt. tekhn. nauk, redaktor PEVZNER, R.S., tekhn. redaktor.

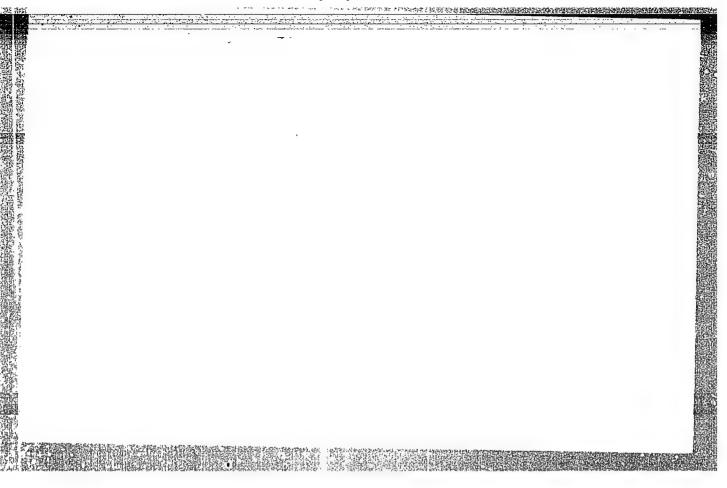
[Proceedings of the Second All-Union Conference on the Theory of Automatic Control.] Trudy Vtorogo Vsesoiuznogo soveshchaniia po teorii avtomaticheskogo regulirovaniia. Moskva, Izd-vo Akad. teorii avtomaticheskogo regulirovaniia. Moskva, Izd-vo Akad. teorii avtomaticheskogo regulirovaniia in the theory of automatic control] Vol.1 Problema ustoichivosti i periodicheskikh rezhimov v teorii avtomaticheskogo regulirovaniia. (MERA 8:8)

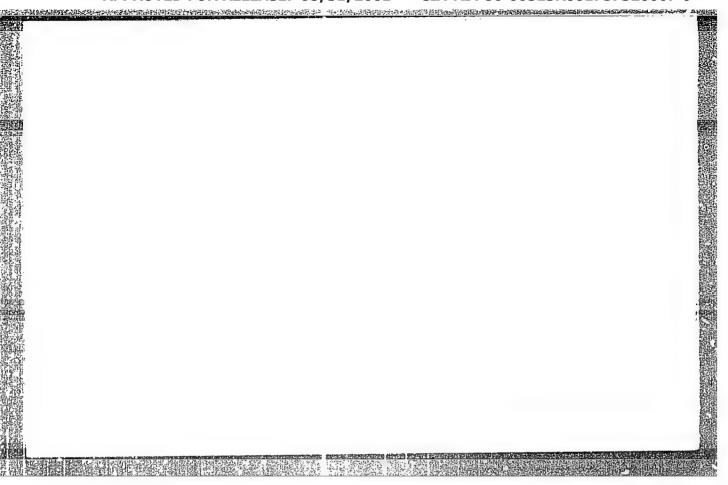
1. Chlen korrespondent AN SSSR (for Transanikov, Petrev) 2. Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757320007-9"









TSYPKIN, Ya.Z.

Calculation of amplitude characteristics of limiters. Radiotekhnika 10 no.12:71-74 D '55.

(Radio)

### "APPROVED FOR RELEASE: 08/31/2001 CIA

CIA-RDP86-00513R001757320007-9

USSR/Automatics and telemechanics-pulse forms

FD-2759

Card 1/2

Pub. 10 - 4/11

Author

: Tsypkin, Ya. Z. (Moscow)

Title

Taking into account the form of pulses in systems of discontinuous

regulation

Periodical

: Avtom. i telem., 16, Sep-Oct 1955, 462-466

Abstract

The author shows that the theory expounded earlier by him ("Theory of discontinuous regulation. I, II, III," ibid., 10, Nos 3 and 5, 1949; 11, No 5, 1950. "Frequency method of analyzing systems of discontinuous regulation," ibid., 14, No 1, 1953) is applicable also to systems of discontinuous regulation of the first type which are characterized by the fact that the output quantity of pulse element is represented as a sequence of pulses of arbitrary form which are equidistant from one another. References: V. V. Solodovnikov, Vvedeniye v statischeskuyu dinamiku sistem avtomaticheskogo upravleniya [Introduction to statistical dynamics of automatic regulation systems], State Technical Press, 1952; A. A. Voronov, Elementy teorii avtomaticheskogo regulirovaniya [Elements of the theory of automatic regulation], Military Press, 1954; Ya. D. Shirman, "Simplified methods of analyzing the spectra of impulse

Card 2/2

FD-2759

modulation," Trudy LKVVIA [Works of Leningrad Military and Aeronautical Engineering Academy], No 19, 1948; translation from English of "Generation of electric oscillations of special form," Volume II, Soviet Radio Press, 1951.

Institution

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Submitted

: January 26, 1955

TSYPKIN, Ya.Z., professor, otvetstvennyy redaktor; POPKOV, S.L., redaktor izdatel stva; AUZAN, H.P., tekhnicheskiy redaktor

[A collection of papers on automatic and remote control; proceedings of the Second and Third Scientific and Technical Conferences of Young Specialists of the Institute of Automatic and Remote Control in the Academy of Sciences of the U.S.S.R.] Sbornik robot 20 avtomatike i telemekhanike; trudy vtoroi i tret'ei nauchno-tekhnicheskikh konferentsii molodykh spetsialistov Instituta avtomatiki i telemekhaniki Akademii nauk SSSR. Moskva, 1956. 287 p. (MIRA 9:11)

1. Akademiya nauk SSSR. Institut avtomatiki i telemekhaniki.
, (Automatic control) (Remote control)

TSYPKIN, YA. Z., Dr. of Tech. Sci.

"Certain Problems of Dynamics of Regulation Systems and of Control With Digital Computing Installations" a paper presented at the Conference on Methods of Development of Soviet "athematical Machine-Building and Instrument-Building, 12-17 March 1956.

Translation No. 596, 8 Oct 56

TSYPKIN, Ya. Z. Prof.

"The Synthesis of Pulse Systems for Automatic Regulation and Control," a paper read at the Convention on Control Technique, deidelberg, 24-29 Sep 56

Inst. Automatics and Telemechanics, Moscow

- Tsypkin, YAZ

USSR/Electrophysics - General Problems, I-1

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35237

Tsypkin, Ya. Z. Author:

Institution: None

> Title: On the Connection Between the Equivalent Amplification Coefficient of a Nonlinear Element and Its Characteristic

Original

Periodical: Avtomatika i telemekhanika, 1956, 17, No 4, 343-346

Abstract: An explicit relationship is derived between the equivalent complex

amplification coefficient ("average transconductance") \$(A) and the characteristic of a nonlinear element F(x1). For a symmetrical

characteristic, an approximate equation was obtained

 $F(A) + F(\frac{A}{2})$ , which was illustrated by a graph for cases

of typical F(x). More exact equations are also given for S(A), as well as tables with the values S(A, w) for certain nonsymmetrical characteristics, and a graphic method for obtaining S(A) directly

Card 1/2

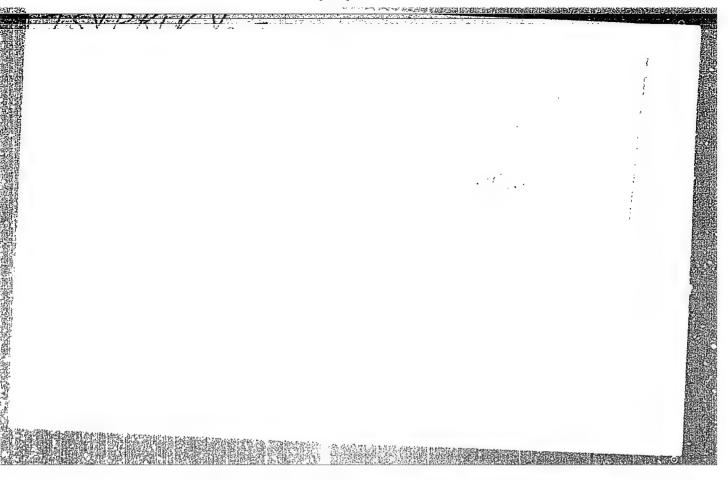
USSR/Electrophysics - General Problems, I-1

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35237

Abstract: from the  $F(x)_1$  curve is indicated. All the results are obtained using V. A. Steklov's method for calculating the integral

SA = 
$$\frac{2}{\pi A} \int_{1}^{\pi} F(A \cos \psi) \cos \psi d\psi = \frac{2}{\pi A} \int_{1-y^2}^{\pi} \frac{F(Ay)y}{dy} dy$$
, where  $y = \cos \psi$ .

Card 2/2



Automatic control systems containing digital computers.
Avtom. 1 telem. 17 no.8:665-679 Ag '56.

(Automatic control) (Calculating machines)

TSYPKIN, Ya. Z

"Investigation of Steady-State Processes in Pulse Servosystems," by Ya. Z. Tsypkin, Moscow, Avtomatika i Telemekhanika, Vol 17, No 12, Dec 56, pp 1057-1069

The author presents an expression for the steady-state error of pulse systems. He describes various methods for computing error coefficients and investigates a steady-state process in the simplest pulse servosystem.

"Pulse servosystems are widely used in pulse engineering, radio location, and computer engineering."

Sum 1258

TSYPKIN, Y. Z., Institute of Automatics and Telemechanics, AS USSR, Moseow

"Some Problems on the Theory of Discrete Automatic Systems," a paper presented at the Conference on Computers in Control Systems, Atlantic City, N. J., 16-18 Oct 57.

c-3,800,407.

SOV/124-58-1-144

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 17 (USSR)

AUTHOR: Tsypkin, Ya. Z.

The State of the Art and Development Objectives of the Theory of Discrete-action Feedback Control Systems (Sostoyaniye i zadachi TITLE:

razvitiya teorii sistem avtomaticheskogo upravleniya diskretnogo

deystviya)

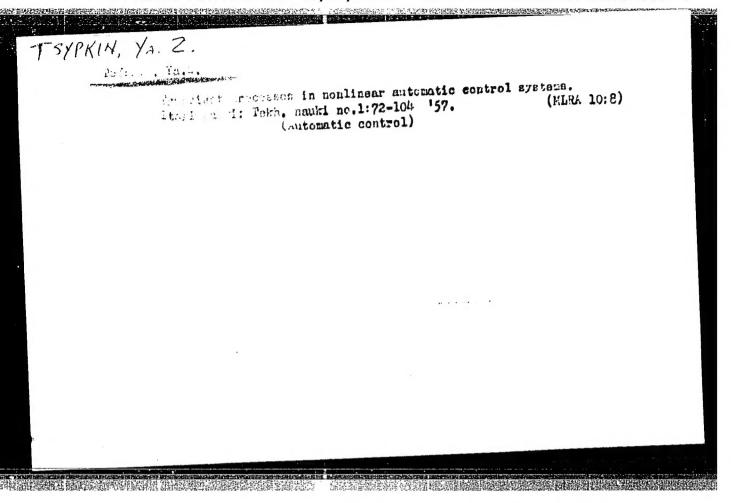
PERIODICAL: Sessiya AN SSSR po nauchn. probl. avtomatiz. proiz-va, 1956,

Vol 2. Moscow, AN SSSR, 1957, pp 233-253

Bibliographic entry ABSTRACT:

Card 1/1

CIA-RDP86-00513R001757320007-9" APPROVED FOR RELEASE: 08/31/2001



TS PKIN, Ya. Z. (Prof.)

"Condition and Problems of the Development of the Theory of Discrete Action Automatic Control Systems,"

paper read at the Session of the Acad. Sci..USSR, on Scientific Problems of Automatic Production, 15-20 October 1956.

Avtomatika i telemekhanika, no. 2, p. 182-192, 1957.

9015229

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001757320007-9"

SOV/124-58-5-4992

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 5, p 7 (USSR)

Tsypkin, Ya.Z., Gol'denberg, L.M. AUTHORS:

How to Construct a Transient Process in Automatic Control Systems From the Characteristics of Their Separate Compon-TITLE: ents (Postroyeniye perekhodnogo protsessa v sistemakh avtomaticheskogo regulirovaniya po kharakteristikam ikh otdel'-

nykh zven'yev)

PERIODICAL: Tr. Vses. zaochn. energ. in-ta, 1957, Nr 7, pp 90-106

A study is made of the problem of calculating approximately the time characteristics of closed linear systems by ABSTRACT: using transfer functions or using the time characteristics of the systems' individual components. According to the wellknown formula of the theory of impulse control systems, a transition is accomplished from the continuous transfer function to a discrete transfer function. The relationship between the discrete values of the output and input values in a continuous system is written as a summation (the discrete weight function). The weight factors of this summation are equal to

the coefficients of the expansion into a series of the discrete Card 1/2